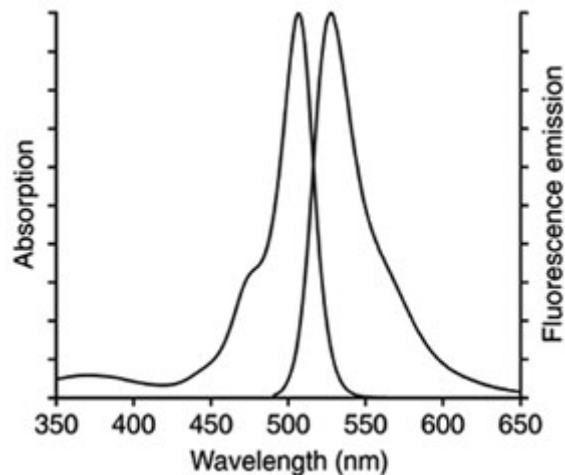


## Fluo-3 AM (钙离子荧光探针, 5mM)

产品编号	产品名称	包装
S1056	Fluo-3 AM (钙离子荧光探针, 5mM)	20微升

### 产品简介:

- Fluo-3 AM是最常用的检测细胞内钙离子浓度的荧光探针之一。分子式为 $C_{51}H_{50}Cl_2N_2O_{23}$ ，分子量为1129.85。
- Fluo-3和Fura-2相比，其优点是：一方面可以被氩离子激光(argon-ion laser)的488nm激发光激发，便于检测；另一方面，Fluo-3和钙离子结合后荧光变化更强，即对钙离子浓度变化的检测更加灵敏；同时，Fluo-3和钙离子的结合能力较弱，这样可以比Fura-2检测到细胞内更高浓度的钙离子水平；此外，对于细胞内的钙离子的即时变化反应得更加准确，减小了因为和钙离子解离速度慢而导致的荧光变化滞后。
- 本Fluo-3 AM (钙离子荧光探针) 是配制于无水DMSO (anhydrous DMSO)中的储存液，浓度为5mM。
- Fluo-3 AM是一种可以穿透细胞膜的荧光染料。Fluo-3 AM的荧光非常弱，其荧光不会随钙离子浓度升高而增强。Fluo-3 AM进入细胞后可以被细胞内的酯酶剪切形成Fluo-3，从而被滞留在细胞内。Fluo-3可以和钙离子结合，结合钙离子后可以产生较强的荧光，最大激发波长为506nm，最大发射波长为526nm。实际检测时推荐使用的激发波长为488nm左右，发射波长为525-530nm。Fluo-3的激发光谱和发射光谱参考下图。



- 用于细胞内钙离子检测时，Fluo-3 AM的常用浓度为0.5-5 $\mu$ M。通常用含有0.5-5 $\mu$ M的Fluo-3 AM的适当溶液和细胞一起在20-37 $^{\circ}$ C孵育15-60分钟进行荧光探针装载，随后适当洗涤，洗涤后可以适当再孵育20-30分钟以确保Fluo-3 AM在细胞内完全转变成Fluo-3。

### 包装清单:

产品编号	产品名称	包装
S1056	Fluo-3 AM (钙离子荧光探针, 5mM)	20微升
—	说明书	1份

### 保存条件:

-20 $^{\circ}$ C避光保存，6个月有效。

### 注意事项:

- 本Fluo-3 AM在4 $^{\circ}$ C、冰浴等较低温度情况下会凝固而粘在离心管管底、管壁或管盖内，可以20-25 $^{\circ}$ C水浴温育片刻至全部融解后使用。
- 荧光染料均存在淬灭问题，请尽量注意避光，以减缓荧光淬灭。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

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